

**COMPETENCIES
EMPLOYEE SELF-ASSESSMENT**

BCF 204 - INTERMEDIATE COST ANALYSIS

BCF 204	Competency	Yes	No	Work Description/Justification
1	Explain the cost estimating process and distinguish between the various types of estimates and activities that are performed.			
2	Explain, perform, and evaluate cost model development.			
3	Discuss data collection and analysis, and how data problems impact the estimate.			
4	Normalize data for differences in definition, economic year of the dollars, and quantities.			
5	Identify the components of the Operating and Support (O&S) cost estimate.			
6	Develop, apply, and evaluate cost estimating relationships in linear and multiplicative regression forms.			
7	Identify the use of transformations in regression analysis.			
8	Analyze various regression outputs to determine preferred cost estimating relationships (CERs), and interpret what implications the statistics have on the ability to estimate future tasks.			

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9	Perform residual analysis to validate model assumptions. If model assumptions are violated, recommend potential corrective action.			
10	Discuss and develop cost model documentation.			
11	Determine the strengths and weaknesses of the following techniques and apply them to develop estimates: expert opinion, analogy, cost factors, estimates-at-completion, and wraparound rates.			
12	Explain the conditions that must exist for cost improvement to be possible and identify techniques to arrive at a T1 and slope.			
13	Develop and apply step-down functions.			
14	Distinguish between the unit and cumulative average cost improvement curve applications.			
15	Develop and apply cost improvement curves for unit, cumulative average, rate, and fixed cost models.			
16	Estimate cost improvement lost from breaks in production.			

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17	Analyze a program schedule to determine the appropriate time phasing techniques(s) for the Development, Production, and Operating and Support cost elements.			
18	Explain the risk management process in systems acquisition.			
19	Estimate the resources required to obtain specified confidence levels in the estimate.			
20	Discuss the key elements of cost estimate documentation. Document cost estimates.			